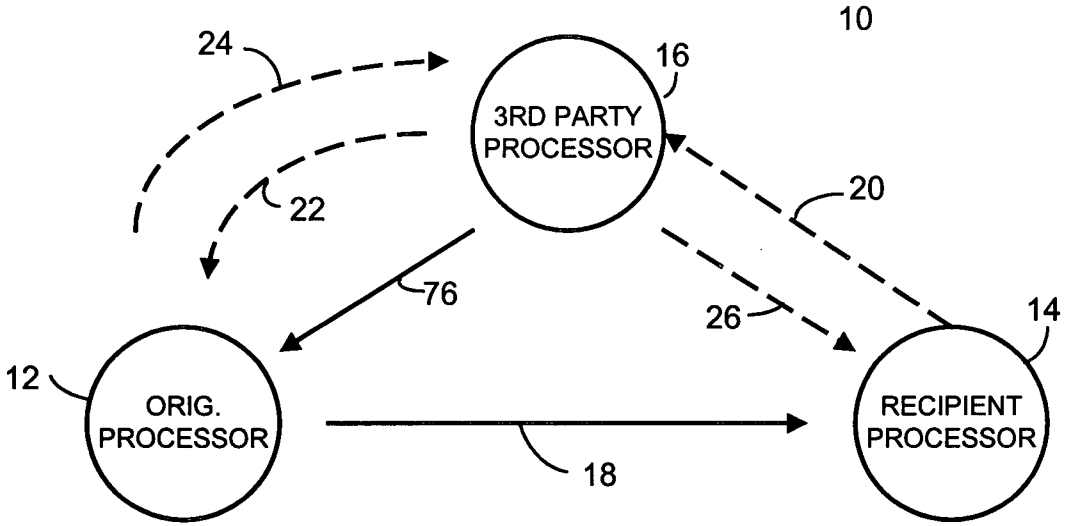
10
24
16
3RD PARTY PROCESSOR
22
20
76
26
14
12
ORIG. PROCESSOR
RECIPIENT PROCESSOR
18

FIG. 1

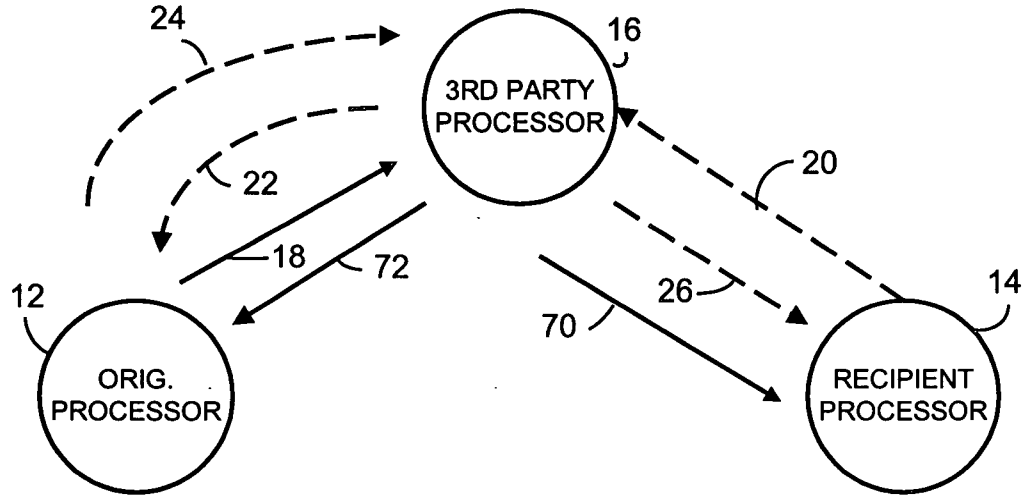
24
16
3RD PARTY PROCESSOR
22
20
18
72
26
14
12
70
ORIG. PROCESSOR
RECIPIENT PROCESSOR

FIG. 6

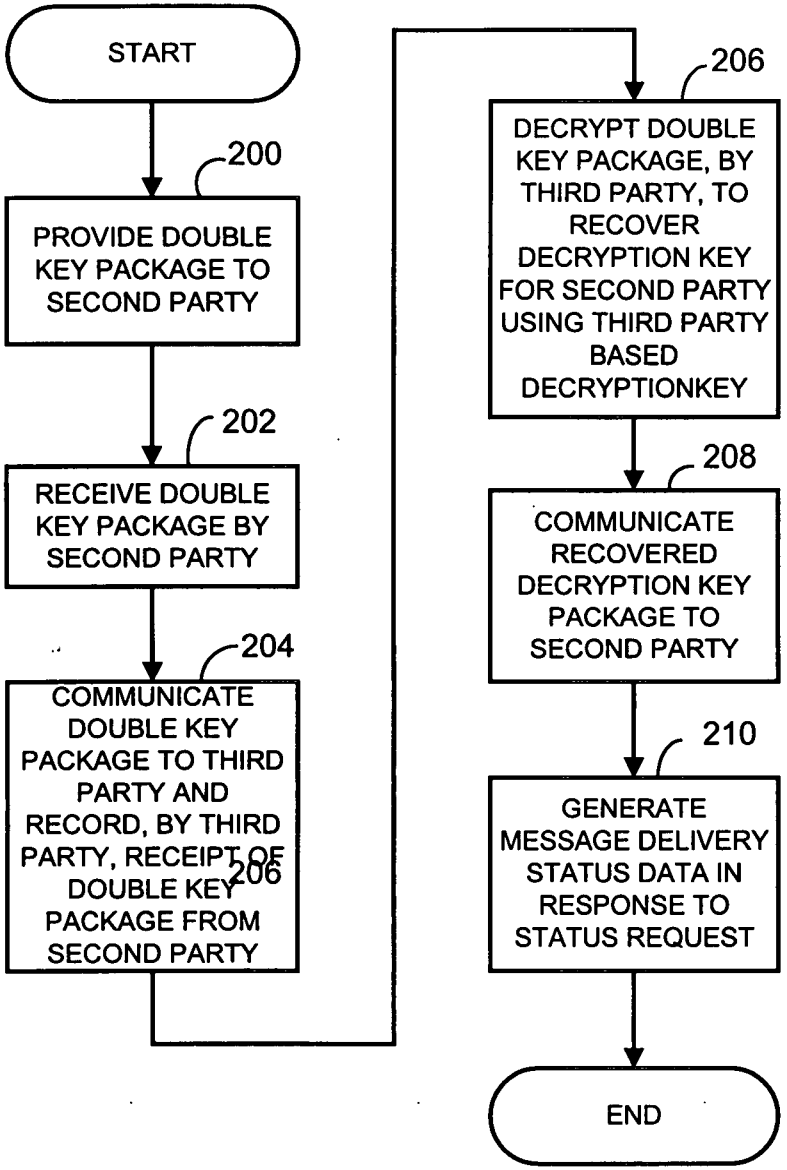

FIG. 2

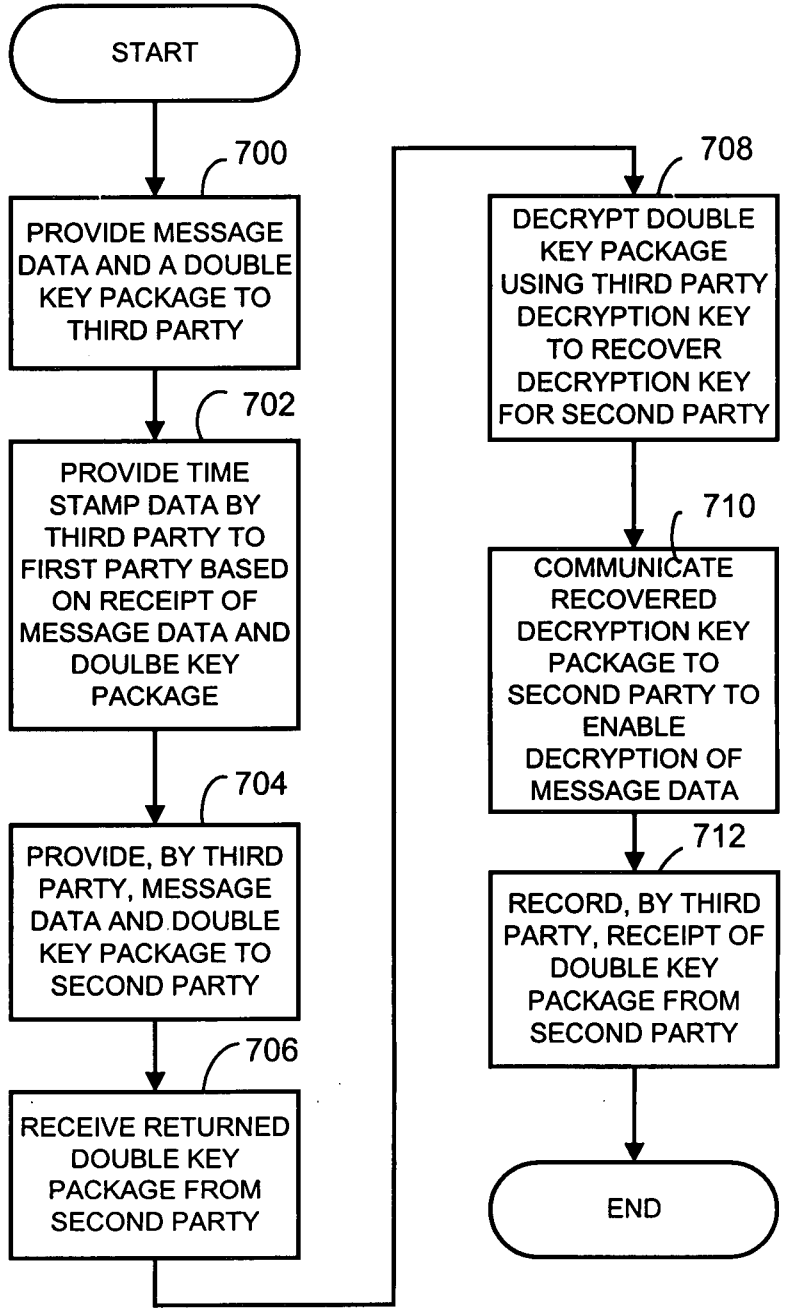

FIG. 7

09328056 .060899

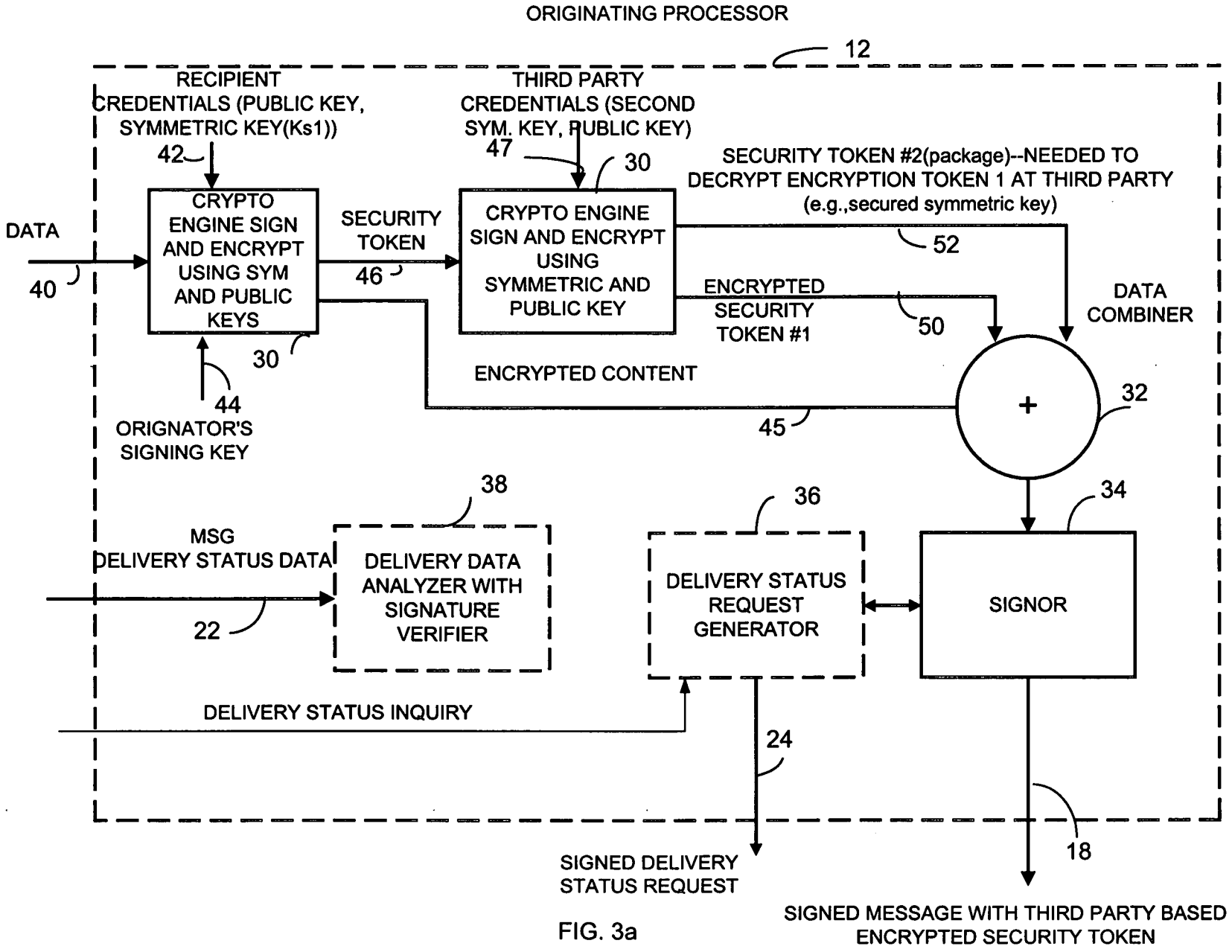

FIG. 3a

09328066 . 060899

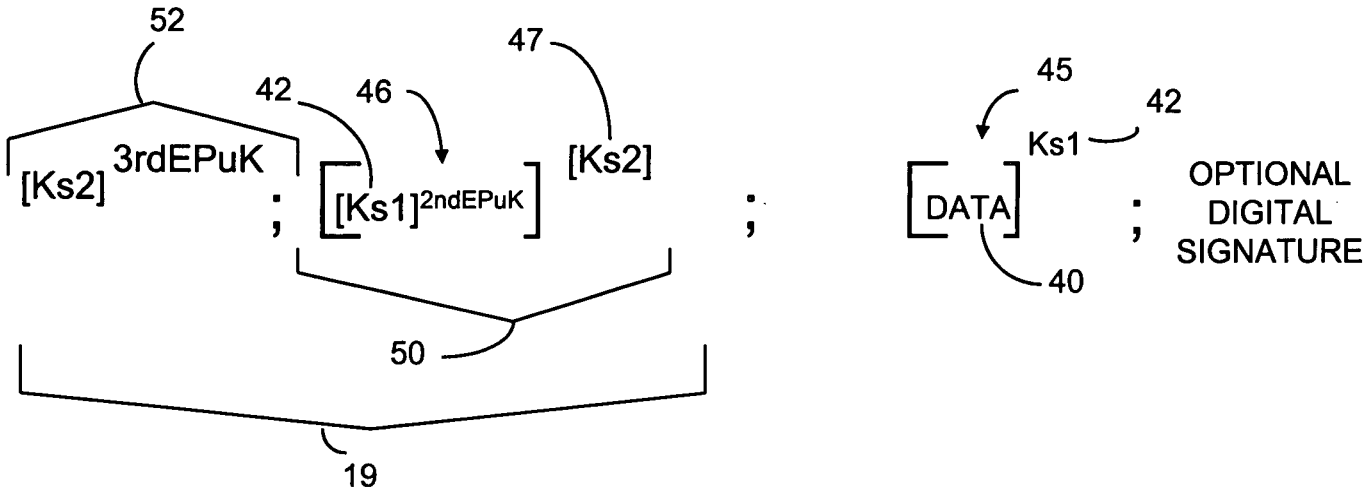
52
47
42
46
[Ks2] 3rdEPuK
;
[Ks1]2ndEPuK
[Ks2]
;
50
19
double key package
45
42
Ks1
[DATA]
;
OPTIONAL
DIGITAL
SIGNATURE
40

FIG. 3b

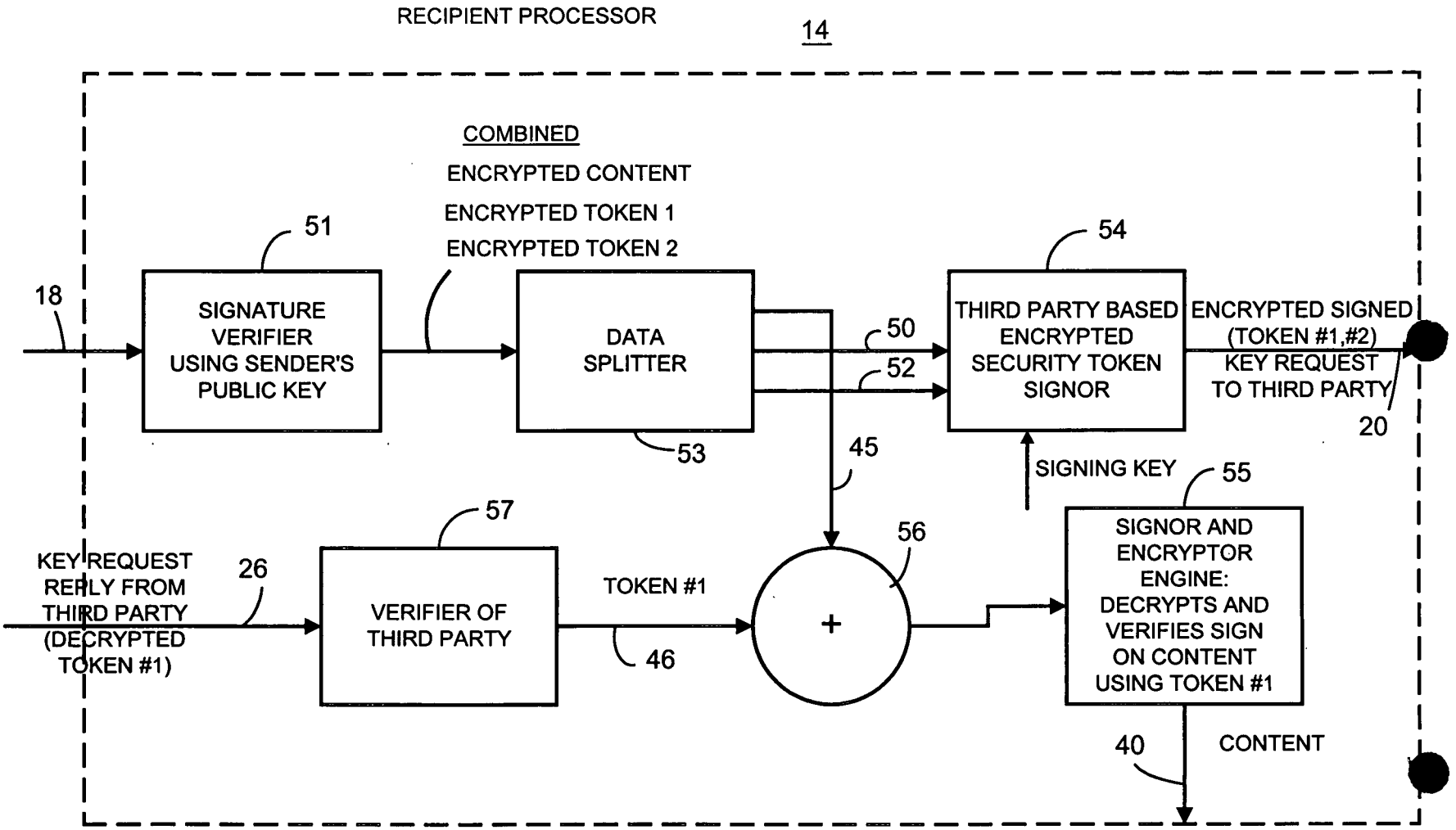
RECIPIENT PROCESSOR
14
COMBINED
ENCRYPTED CONTENT
ENCRYPTED TOKEN 1
ENCRYPTED TOKEN 2
51
18
SIGNATURE VERIFIER USING SENDER'S PUBLIC KEY
DATA SPLITTER
53
50
52
54
THIRD PARTY BASED ENCRYPTED SECURITY TOKEN SIGNOR
ENCRYPTED SIGNED (TOKEN #1,#2) KEY REQUEST TO THIRD PARTY
20
45
SIGNING KEY
55
SIGNOR AND ENCRYPTOR ENGINE: DECRYPTS AND VERIFIES SIGN ON CONTENT USING TOKEN #1
57
56
KEY REQUEST REPLY FROM THIRD PARTY (DECRYPTED TOKEN #1)
26
VERIFIER OF THIRD PARTY
TOKEN #1
46
+
40
CONTENT

FIG. 4

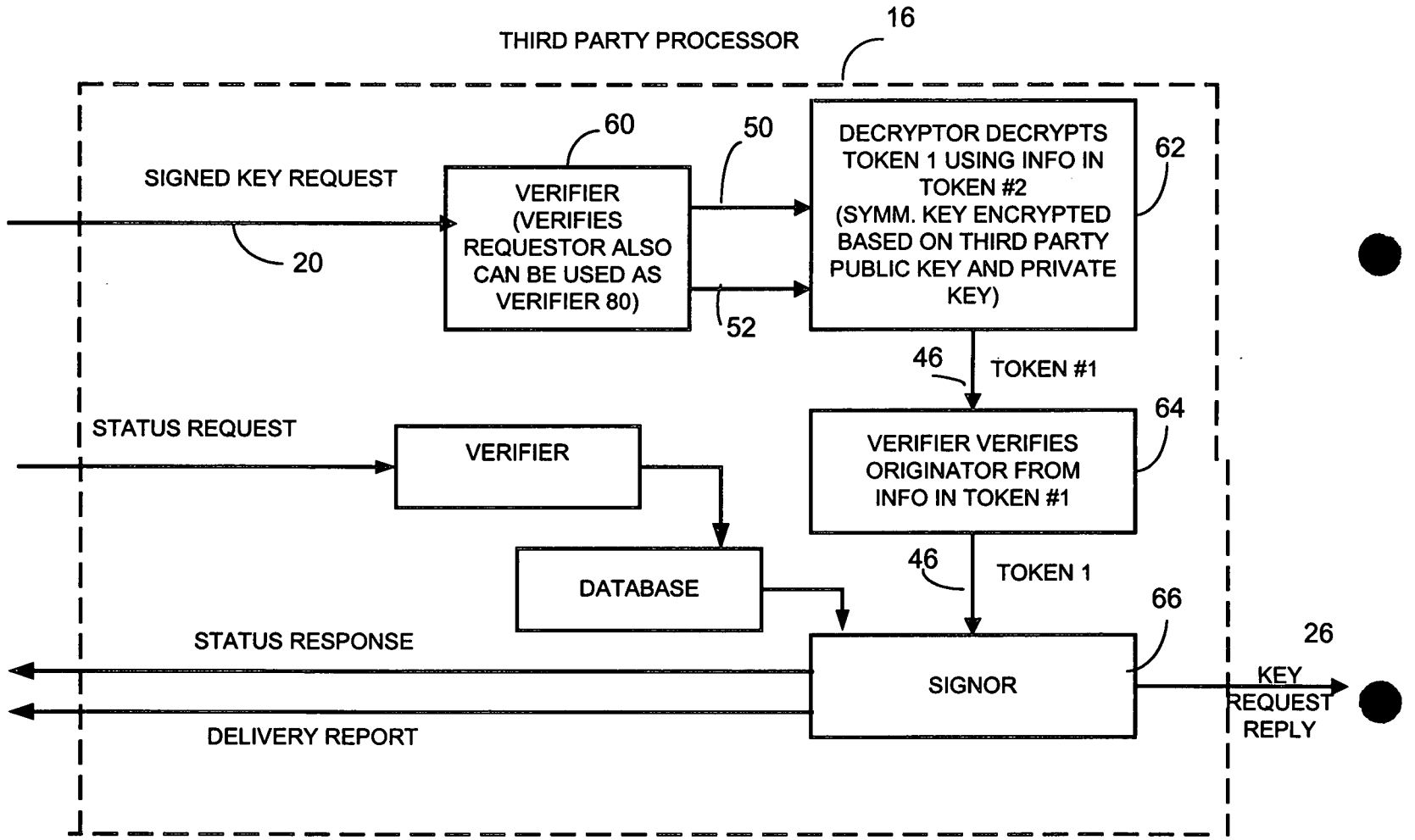
THIRD PARTY PROCESSOR
16
SIGNED KEY REQUEST
20
60
VERIFIER (VERIFIES REQUESTOR ALSO CAN BE USED AS VERIFIER 80)
50
52
DECRYPTOR DECRYPTS TOKEN 1 USING INFO IN TOKEN #2 (SYMM. KEY ENCRYPTED BASED ON THIRD PARTY PUBLIC KEY AND PRIVATE KEY)
62
46
TOKEN #1
STATUS REQUEST
VERIFIER
VERIFIER VERIFIES ORIGINATOR FROM INFO IN TOKEN #1
64
DATABASE
46
TOKEN 1
66
STATUS RESPONSE
SIGNOR
26
KEY REQUEST REPLY
DELIVERY REPORT

FIG. 5

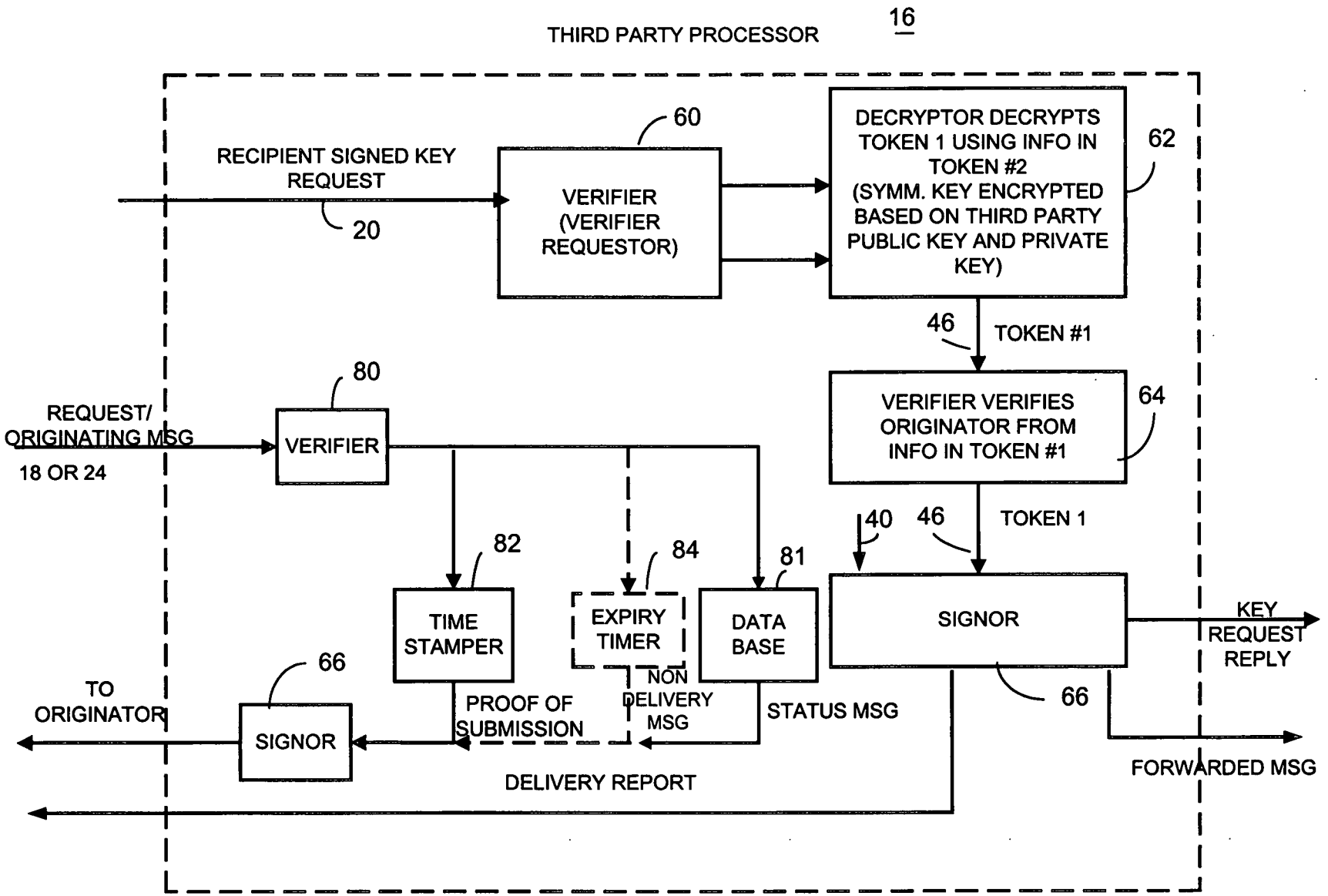

FIG. 8

09328066 .060899